## Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of all claims:

Claim 1: (Currently amended) A slosed loop shurry processing system for pumping slurry from a slurry processing unit to a treatment jatalled on a decleting barge, to an on-shore treatment facility of the type including a containment vessel for receiving contaminated slurry, means for discharging a chemical decontamination recepent into the containment vessel for treating the slurry, and means for separating sludge from the slurry, thereby yielding process treatment water and treated sludge for disposal or further treatment, the closed loop slurry processing system comprising in combination:

## a dredging barge;

a sharry processing unit including a hopper installed on the dredging barge for receiving and containing contaminated sludge dredged from a body of water and means for mixing make-up water with sludge in the hopper thereby producing an aqueous shurry,

a slurry processing unit installed on the deedging burge, the slurry processing unit including means for mixing make-up water with sludge thereby producing an aqueous slurry, and having an outlet for discharging aqueous slurry into a delivery pipeline: a slurry delivery pipeline connectable in flow communication with the <u>outlet of the</u> slurry processing unit for transporting slurry to the <u>an on-shore</u> treatment facility for discharge into the into a containment vessel;

slurry pumping apparatus connectable in flow communication with the slurry delivery pipeline for pumping slurry from the slurry processing unit to the treatment facility for discharge into the containment vessel; and

a return pipeline connectable in flow communication with the containment vessel for conveying process treatment water from the treatment facility to the sturry processing unit dredging barge for discharge into the hopper, and

with the return pipeline for pumping process treatment water from the treatment facility to the seurry processing unit dredging harge for supplying the hopper and the seurry processing unit with make-up water to be used as make-up water in the hopper.

make-up water pumping apparatus connectable in flow communication

Claim 2: (currently amended) A <u>closed loop</u> slurry processing system according to claim 1, the slurry processing unit including slurry discharge piping coupled between the hopper and the slurry delivery pipeline, and the make-up water pumping apparatus including:

a low pressure pump having an inlet port coupled to the containment vessel for receiving process treatment water and having an outlet port coupled to the inlet of the return pipeline; a make-up water booster pump having an inlet port coupled in flow communication with the outlet of the return pipeline and having an outlet port for supplying process treatment water to the hopper; and

make-up water piping coupled to the output of the booster pump, including an injection pipe for supplying process treatment water to the slurry discharge piping and a make-up water line for supplying process treatment water to the sludge hopper.

Claim 3: (Carrently amended) Shurry Classed Logo slurry processing apparatus for conveying contaminated shudge from a body of water to an on-shore treatment facility of the type including a containment vessel for receiving slurry, means for discharging a chemical decontamination reagent into the containment vessel for treating the slurry, and means for separating shudge from the slurry, thereby yielding process treatment water and treated shudge for disposal or further treatment: comprising in combination:

an on-shore treatment facility including a containment vessel for receiving slurry, means for discharging a chemical decontamination reagent into the containment vessel for treating the slurry, and means for separating sludge from the slurry, thereby vielding process treatment water and treated sludge for disposal or further treatment:

a dredging barge including a dredge for removing contaminated sludge from a body of water:

a hopper disposed on the barge for receiving and containing contaminated sludge removed from the body of water.

- a slurry processing unit including a hopper disposed installed on the barge for receiving contaminated sludge removed from the body of water and means for mixing make-up water with sludge in the hopper thereby producing an aqueous slurry.
- a sturry delivery pipeline connectable in flow communication with the sturry processing unit for transporting sturry to the treatment facility for discharge into the containment vessel;
- a buoyant make-up water pipeline for conveying make-up treatment
  water across the body of water from the on-shore treatment facility <u>across the body of</u>
  water to the studge hopper dredging barger.
- slurry pumping apparatus connected in flow communication with the delivery pipeline for pumping slurry from the slurry processing unit to the on-shore treatment facility for discharge into the containment vessel; and
- make-up water pumping apparatus connected in flow communication with the return pipeline for pumping process treatment water from the treatment facility to the dredge to be used as make-up water in the hopper and in the slurry processing unit.

Claim 4: (Currently amended) A closed loop shurry processing system for pumping varying compositions of shurry from a shurry processing unit on a dredging barge floating on a body of water to an on-shore treatment facility of the type including a containment vessel for receiving shurry, means for discharging a chemical decontamination reagent into the containment vessel for treating the shurry, and mean for separating shudge from the shurry, thereby yielding process treatment water and treated shudge for disposal or further treatment A closed loop shurry processing system for conveying an aqueous shurry containing contaminated shudge, removed from a body of water by a dredging barge, to an on-shore treatment facility for flightly-solids separation and chemical decontamination treatment, and after apparation, conveying treatment water from the on-shore treatment facility to the dredging barge to be used as make-up water for mixing with collected shudge for producing an aqueous shurry and for adjustment of shurry specific gravity, said closed loop shurry processing

a dredging barge including a dredge for removing contaminated sludge from a body of water;

system comprising, in combination:

a hopper disposed on the dredging barge for collecting contaminated sludge removed from the body of water;

a slurry processing unit disposed on the deciging barge, the slurry processing unit including means for mixing make-up water with collected sludge thereby producing an aqueous slurry, and having an outlet for discharging aqueous slurry that can be pumped through a buoyant delivery pipeline;

a buoyant delivery pipeline coupled in series flow relation with the connectable to the slurry processing unit and the containment vessel for conveying slurry from the dredging barge across the body of water to the across a body of water to an on-shore treatment facility for discharge into the into a slurry containment vessel for chemical treatment and liquid-solids separation:

slurry pumping apparatus connectable in flow communication with the delivery pipeline for pumping slurry from the slurry processing unit to the on-shore treatment facility for discharge into the containment vessel;

a buoyant return pipeline couplet di series flow relation with the sonacctable to the containment vessel and the shurry processing unit for supplying process treatment water produced by the on-shore treatment facility for discharge into the hopper for producing a shurry mixture of sludge and treatment water and for use as make-up water to the shurry processing unit in the shurry processing unit for adjustment of slurry specific gravity;

slurry pumping apparatus connected in flow communication with the delivery pipeline for pumping slurry from the slurry processing unit to the on-shore treatment facility;

make-up water pumping apparatus connected in flow communication
with the return pipeline for pumping process treatment water from the treatment
facility to the studge slurry processing unit; and

whereby process treatment water produced in the by the on-shore treatment facility can be used and recycled for use as make-up water for diluting mixing with contaminated sludge and specific gravity adjustment in the sludge processing unit collected in the hopper thereby producing an slurry mixture of sludge and treatment water and for adjusting the specific gravity of the slurry in the sludge processing unit without releasing process treatment water or slurry into the body of water while the contaminated sludge is being processed.

Claims 5-11 (canceled)